-continued

```
            20                  25                  30

<210> SEQ ID NO 573
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 573

Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr
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Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Asp Phe Tyr Cys
            20                  25                  30


<210> SEQ ID NO 574
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 574

Gln Val Trp Asp Ser Ser Ser Asp Pro Val Val
 1               5                  10


<210> SEQ ID NO 575
<211> LENGTH: 10
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 575

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 1               5                  10
```

What is claimed is:

1. An isolated monoclonal antibody that binds to PCSK9, wherein the isolated monoclonal antibody binds an epitope on PCSK9 comprising at least one of residues 237 or 238 of SEQ ID NO: 3, and wherein the monoclonal antibody blocks binding of PCSK9 to LDLR.

2. The isolated monoclonal antibody of claim **1**, wherein the isolated monoclonal antibody is a neutralizing antibody.

3. The isolated monoclonal antibody of claim **2**, wherein the isolated monoclonal antibody was produced by a CHO cell.

4. The isolated monoclonal antibody of claim **3**, wherein the isolated monoclonal antibody binds to PCSK9 with a K_D of less than or equal to 5×10^{-9} M.

5. The isolated monoclonal antibody of claim **2**, wherein the isolated monoclonal antibody is a human antibody.

6. The isolated monoclonal antibody of claim **5**, wherein the isolated monoclonal antibody comprises a light chain region that comprises an amino acid sequence of SEQ ID NO: 157.

7. The isolated monoclonal antibody of claim **2**, wherein the epitope is a functional epitope.

8. The isolated monoclonal antibody of claim **2**, wherein the epitope is a structural epitope.

9. The isolated monoclonal antibody of claim **2**, wherein the epitope is an epitope on a native PCSK9 protein.

10. The isolated monoclonal antibody of claim **2**, wherein the epitope comprises at least residue 237 of SEQ ID NO: 3.

11. The isolated monoclonal antibody of claim **2**, wherein the epitope comprises at least residue 238 of SEQ ID NO: 3.

12. The isolated monoclonal antibody of claim **2**, wherein the isolated monoclonal antibody is a humanized antibody.

13. An isolated monoclonal antibody that binds to human PCSK9 at one or more of amino acid residues 237 or 238 of SEQ ID NO: 3, and wherein the monoclonal antibody blocks binding of PCSK9 to LDLR.

14. The isolated monoclonal antibody of claim **13**, wherein the isolated monoclonal antibody is a neutralizing antibody.

15. The isolated monoclonal antibody of claim **14**, wherein the isolated monoclonal antibody was produced by a CHO cell.

16. The isolated monoclonal antibody of claim **15**, wherein the isolated monoclonal antibody binds to PCSK9 with a K_D of less than or equal to 5×10^{-9} M.

17. The isolated monoclonal antibody of claim **14**, wherein the isolated monoclonal antibody is a human antibody.

18. The isolated monoclonal antibody of claim **17**, wherein the isolated monoclonal antibody comprises a light chain region that comprises an amino acid sequence of SEQ ID NO: 157.

19. The isolated monoclonal antibody of claim **17**, wherein the isolated monoclonal antibody further binds at least one of amino acid residues 153, 194, 374, 377, or 379 of SEQ ID NO: 3.

20. The isolated monoclonal antibody of claim **17**, wherein the isolated monoclonal antibody further binds at least one of amino acid residues 367 or 382 of SEQ ID NO: 3.

21. The isolated monoclonal antibody of claim **17**, wherein the isolated monoclonal antibody further binds at least one of amino acid residues 192, 194, or 197 of SEQ ID NO: 3.

22. The isolated monoclonal antibody of claim **14**, wherein the isolated monoclonal antibody is a humanized antibody.

23. The isolated monoclonal antibody of claim **14**, wherein the isolated monoclonal antibody binds at least amino acid residue 237 of SEQ ID NO: 3.